

Testing Like A Boss

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TosChart

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Agenda

1. How regular JUnit test looks like (in time)?
2. Links



Intro

- John Doe The Programmer
- Java developer @ Moon Ms
- Since 2000
- Binary search algorithm



June 2000



Just graduated, "tests are for chicken"



May 2001



JUnit discovered



July 2006



User tries to search non-existent element



December 2007



User tries to search in array with duplicates



October 2009



Integer overflow



Long way



2000



2001



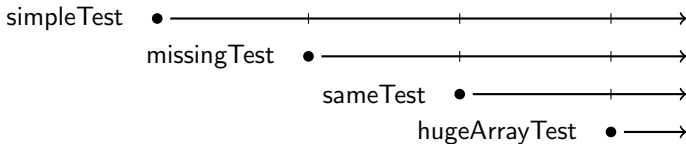
2006



2007



2009



xUnit

- Design tests example by example
- Test suites give us confidence that code works for the examples we thought of
- If we discover a test case, this test is useless right now, it may be useful only in future
- "Don't ask, don't tell"



QuickCheck

- Another approach
- You specify actions and post-conditions
- Let computer generate input data
(he will not forget about corner cases)

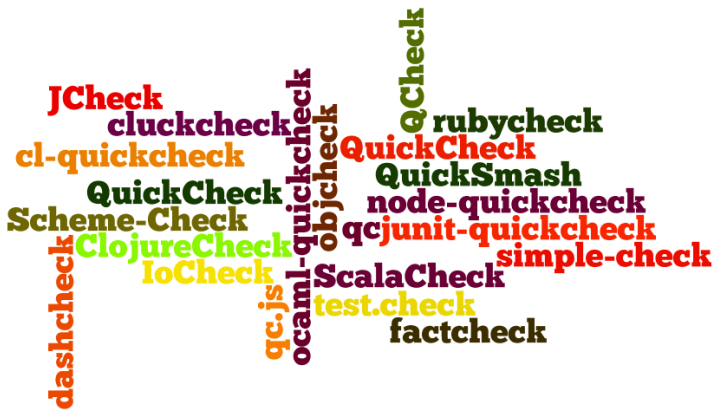


QuickCheck History

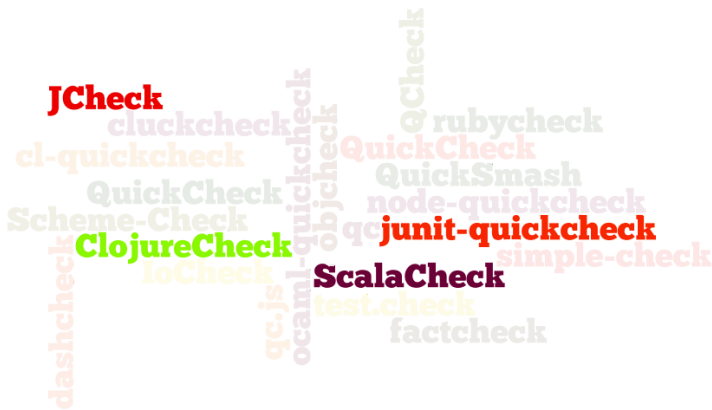
- Initially written for Haskell in 1999
- By Koen Claessen and John Hughes
- BSD-style License



QuickCheck implementations



QuickCheck implementations





Demo



Links

- Introduction to QuickCheck2



Thank You!

